



# Recombinant Rat Protein kinase C beta type (Prkcb)

<b>Product Code</b>	CSB-BP018700RA
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	P68403
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Rattus norvegicus (Rat)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	ADPAAGPPP SEGEESTVRF ARKGALRQKN VHEVKNHKFT ARFFKQPTFC SHCTDFIWGF GKQGFQCQVC CFVVHKRCHE FVTFSCPGAD KGPASDDPRS KHKFKIHTYS SPTFCDHCGS LLYGLIHQGM KCDTMCMNVH KRCVMNVPSL CGTDHTERRG RIYIQAHRDR EVLIVVVRDA KNLVPMDPNG LSDPYVKLKL IPDPKSESKQ KTKTIKCSLN PEWNETFRFQ LKESDKDRRL SVEIWDWDLT SRNDFMGSL S FGISELQKAG VDGWFKLLSQ EEEGEYFNVPV PPEGSEGNEE LRQKFERAKI GQGTKAPEEK TANTISKFDN NGNRDRMKLT DFNFLMVLGK GSFQKVMVLS RKGTDELYAV KILKKDVVIQ DDDVECTMVE KRVLALPGKP PFLTQLHSCF QTMDRLYFVM EYVNGGDLMY HIQQVGRFKE PHAVFYAAEI AIGLFFLQSK GIIYRDLKLD NVMLDSEGGH KIADFGMCKE NIWDGVTTKT FCGTPDYIAP EIIAYQPYGK SVDWWAFQVL LYEMLAGQAP FEGEDEDELQ QSIMEHNVAY PKSMSKEAVA ICKGLMTKHP GKRLGCGPEG ERDIKEHAFF RYIDWEKLER KEIQPPYKPK ARDKRDTSNF DKEFTRQPVE LPTDKLFIM NLDQNEFAGF SYTNPEFVIN V
<b>Source</b>	Baculovirus
<b>Target Names</b>	Prkcb
<b>Protein Names</b>	Recommended name: Protein kinase C beta type Short name= PKC-B Short name= PKC-beta EC= 2.7.11.13
<b>Expression Region</b>	2-671
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full Length of Mature Protein
<b>Target Details</b>	Protein kinase C (PKC) is a family of serine- and threonine-specific protein kinases that can be activated by calcium and second messenger diacylglycerol. PKC family members phosphorylate a wide variety of protein targets and are known to be involved in diverse cellular signaling pathways. PKC family members also serve as major receptors for phorbol esters, a class of tumor promoters. Each member of the PKC family has a specific expression profile and is believed to play a distinct role in cells. This protein is one of the PKC family members. This protein kinase has been reported to be involved in many different cellular functions, such as B cell activation, apoptosis induction,



endothelial cell proliferation, and intestinal sugar absorption. Studies in mice also suggest that this kinase may also regulate neuronal functions and correlate fear-induced conflict behavior after stress. Alternatively spliced transcript variants encoding distinct isoforms have been reported.

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**Reconstitution**

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

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**Shelf Life**

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.

Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.